

**Notice of Allowability**

Application No.

09/740,979

Examiner

Michael J. Moore, Jr.

Applicant(s)

SUGIYAMA, KAZUHIKO

Art Unit

2666

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/7/2005.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☒ The drawings filed on 21 December 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**FRANK DUONG**  
**PRIMARY EXAMINER**

***Allowable Subject Matter***

1. Claims **1-6** are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding claim **1**, the prior art of record fails to teach an IP-VPN unit comprising an inputted IP data packet analyzing section that obtains an input virtual channel (VC) number, a VPN identifier, and a QOS type based on the input VC number and QOS information (protocol type, destination service port number, source address service port number, code point) obtained from an IP packet header. The prior art of record also fails to teach a routing information retrieving section that retrieves an output VC number of an output VC based on a destination address, the above VPN identifier, and the above QOS type.

Regarding claims **2 and 3**, these claims are further limiting to claim **1** and are thus also allowable over the prior art of record.

Regarding claim **4**, the prior art of record fails to teach an ATM edge node switching equipment comprising a user information memory that stores a VPN identifier and a QOS type in association with an input VC number and QOS information (protocol type, destination service port number, source address service port number, code point) and is used when an input IP data packet analyzing section analyzes an IP data packet. The prior art of record also fails to teach a routing information retrieving section that retrieves and sets a routing of the IP data packet based on the analyzed result of the input IP data packet analyzing section. The prior art of record also fails to teach a routing information memory that stores plural output VCs and an output VC state for

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each of the plural output VCs in association with a destination IP address, the above QOS type, and the above VPN identifier, and is used by the routing information retrieving section.

Regarding claims **5 and 6**, these claims are further limiting to claim **4** and are thus also allowable over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Response to Arguments***

3. Applicant's arguments with respect to amended claims **1-6** have been fully considered and are persuasive. The rejections of these claims have been withdrawn.

### ***Conclusion***

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yamano (U.S. 6,636,516), and Daruwalla et al. (U.S. 6,693,878) are other references pertinent to this application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Moore, Jr. whose telephone number is (571) 272-3168. The examiner can normally be reached on Monday-Friday (8:30am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao can be reached at (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



**FRANK DUONG**  
**PRIMARY EXAMINER**

Michael J. Moore, Jr.  
Examiner  
Art Unit 2666

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